



Hammond Sanitary District (HSD) Long Term Control Plan

A. Alternative Evaluation

Alternative 1:	Complete Separation	See Figure 8-1
Alternative 2:	Store and Treat	See Figure 8-2
Alternative 3:	Convey and Treat	See Figure 8-8
Alternative 4a:	NPD-016 CSO Basins	See Figure 8-9
Alternative 4c:	Bird Sanctuary	See Figure 8-15

B. Introduction and Background

This Long Term Control Plan (LTCP) to mitigate CSOs is a revision to HSD's original plan submitted to IDEM in 1997 and is being conducted pursuant to requirements under the federal Clean Water Act. The revised plan assumes that the Hammond Sanitary District is providing wastewater treatment services for the current customer communities of the City of Whiting, the Town of Griffith and the Town of Highland. The District's continued service of these customer communities is subject to change in the future as a result of pending litigation and other disputes between HSD and those communities. As described in greater detail below, the recommended alternative also incorporates a 33 MG storage basin completed by September 2014, which HSD constructed pursuant to a 1999 agreement with EPA and IDEM. This basin is expected to eliminate 97% of all CSOs in those areas.

C. Selected Plan

Of the four alternatives considered, Alternative 4a (NPD-016 CSO Basins) was selected as the recommended alternative to mitigate CSOs based on numerous factors, including cost-effectiveness and overall environmental benefit. Alternative 4a is expected to reduce CSOs 91% in fifteen years and – unlike complete separation – will ensure that all incoming wastewater will receive some treatment prior to discharge. A description of the selected plan is as follows:

West Branch Grand Calumet River - HSD has already constructed a 33 MG CSO storage basin and force mains which transport CSOs from the Columbia, Johnson and Sohl pump stations to the basin. Improvements to the WWTP have already been constructed such that the CSO basin is expected to overflow four times or less during a typical year.

East Branch Grand Calumet River - HSD plans to construct a 9 MG CSO storage basin along with pump station modifications and force mains. The CSO storage basin will store flows from the Kennedy North drainage area. The CSO basin is sized to provide 100% capture of the 1 year- 1-hour storm and settling and disinfection of all discharges. Improvements to the WWTP will be constructed such that the CSO basin will be dewatered in 48 hours.

West Branch Little Calumet River - HSD plans to construct a 3 MG CSO storage basin sized to capture flows from the 173rd and Forest, Hohman-Munster and Jackson CSO pump stations. The CSO basin is sized to provide 100% capture of the 1-year 1-hour storm and settling and disinfection of all discharges. Improvements to the WWTP will be constructed such that the CSO basin will be dewatered in 48 hours. HSD also plans to completely separate the sewers in the Calumet-Munster drainage area and construct an interceptor to transport the increased sanitary flow to the WWTP.

East Branch Little Calumet River - HSD plans to construct a 12 MG CSO storage basin along with pump station modifications and force mains. The CSO basin will store CSOs from the Walnut, Indianapolis Boulevard and Kennedy Ejector CSO pump stations. The basin is sized to provide 100% capture of the 1-year 1-hour storm and settling and disinfection of all discharges. Improvements to the WWTP will be constructed such that the CSO basin will be dewatered in 48 hours.

The projects identified in Alternative 4a are projected to be completed by 2030, subject first to the revised LTCP's overall approval by IDEM and EPA.

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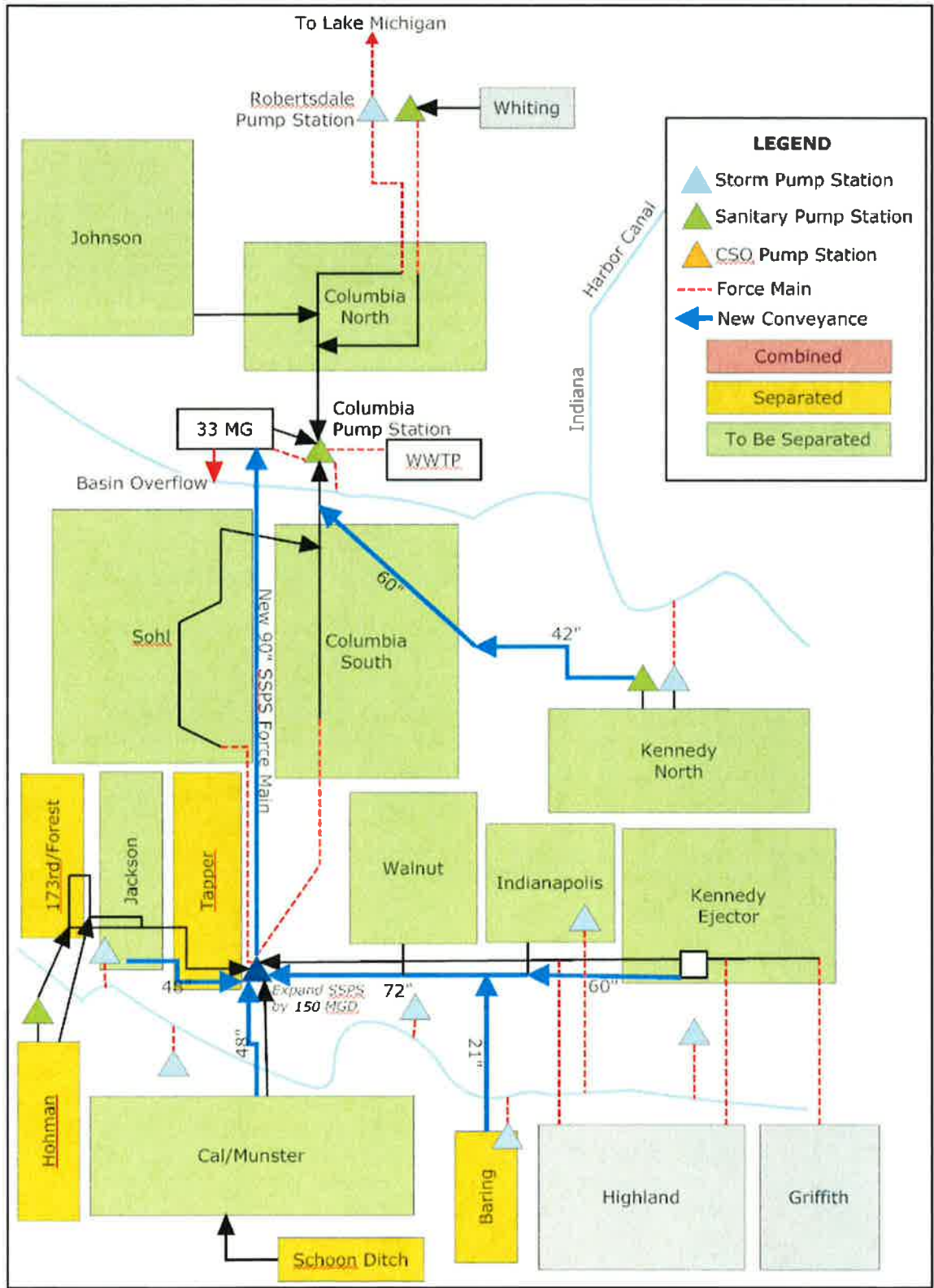


Figure 8-1. Schematic of Alternative 1 — Complete Separation
*Sewersheds not to scale

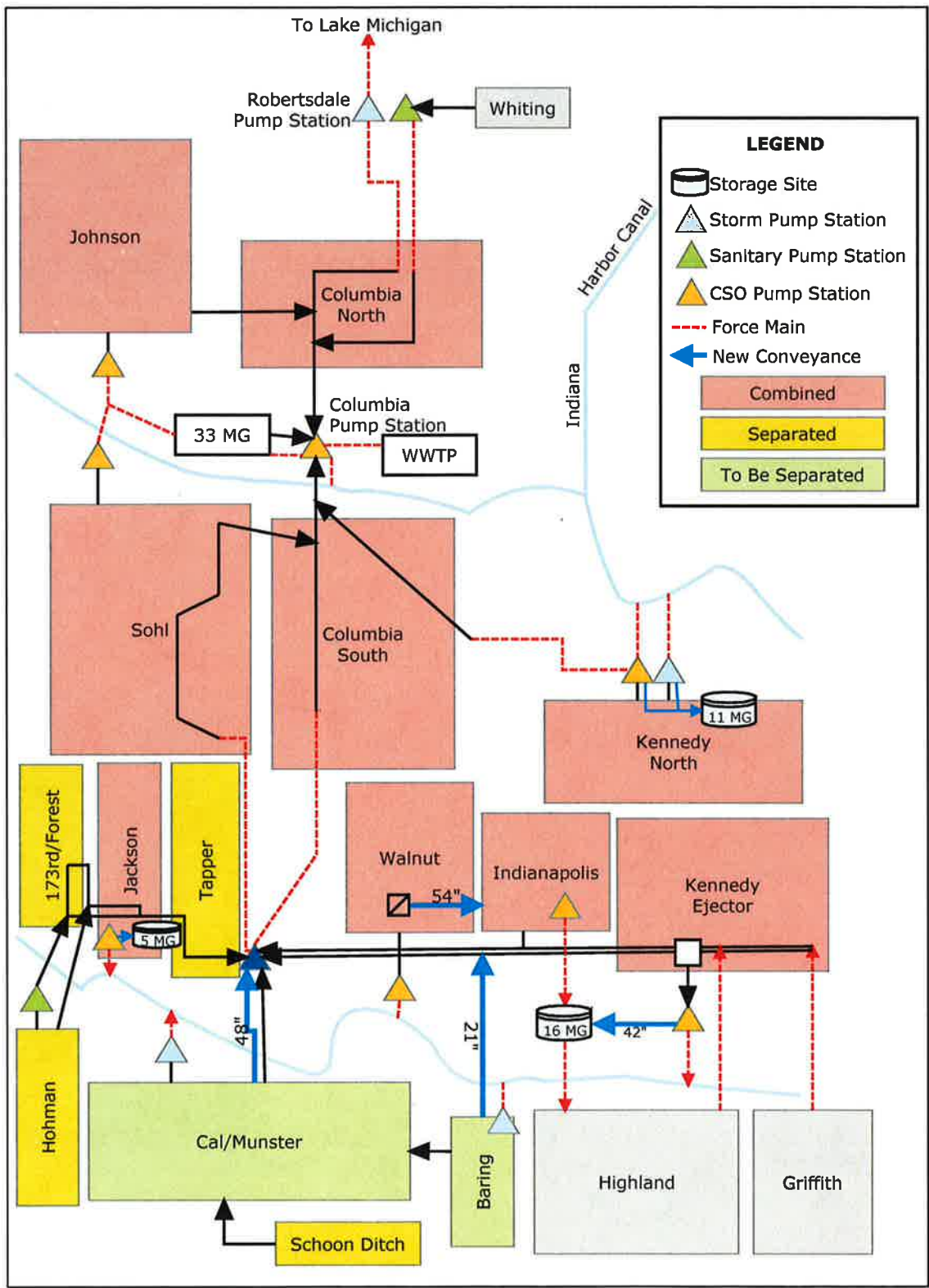


Figure 8-2. Schematic of Alternative 2—Store and Treat
*Sewersheds not to scale

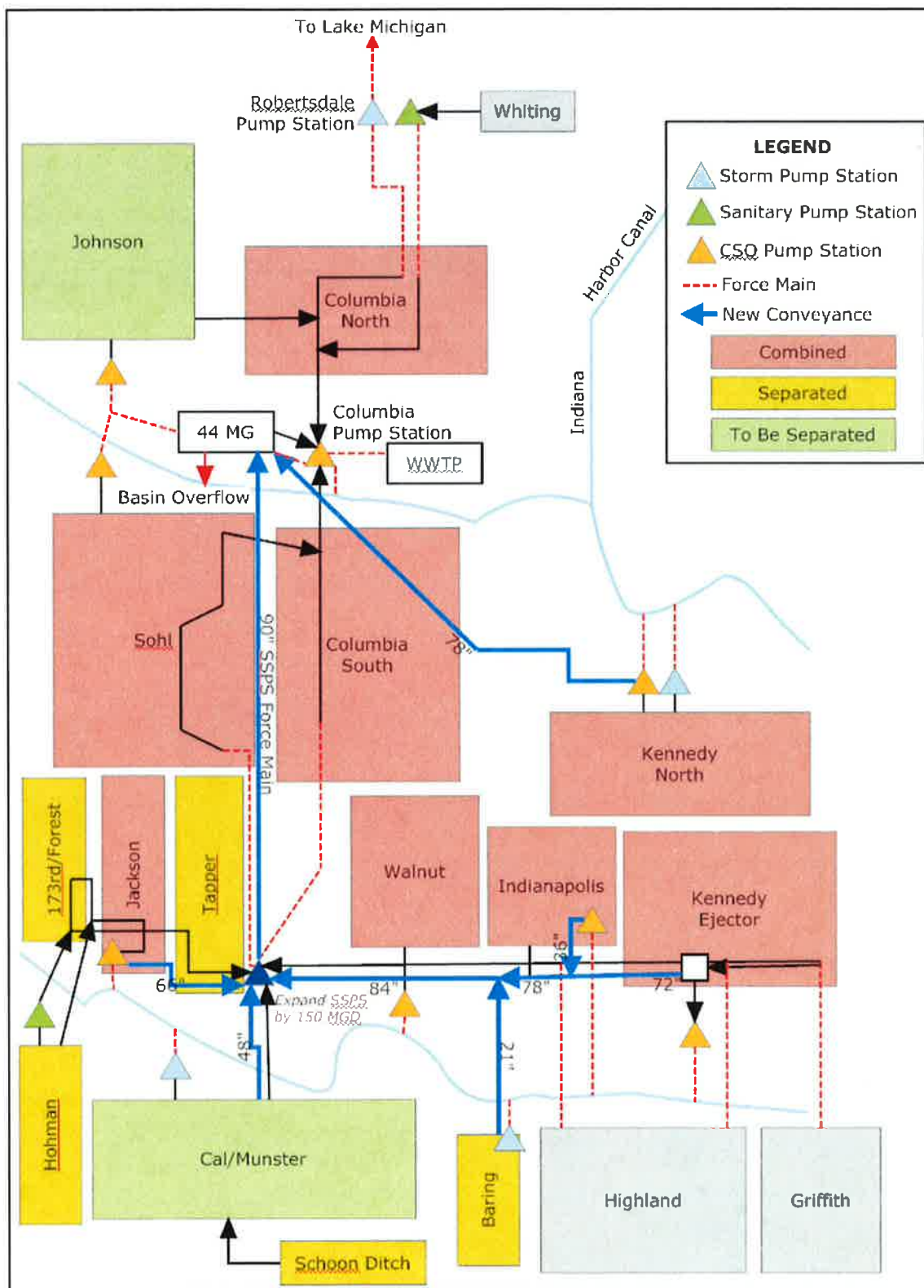


Figure 8-8. Schematic of Alternative 3 — Convey and Treat

*Sewersheds not to scale

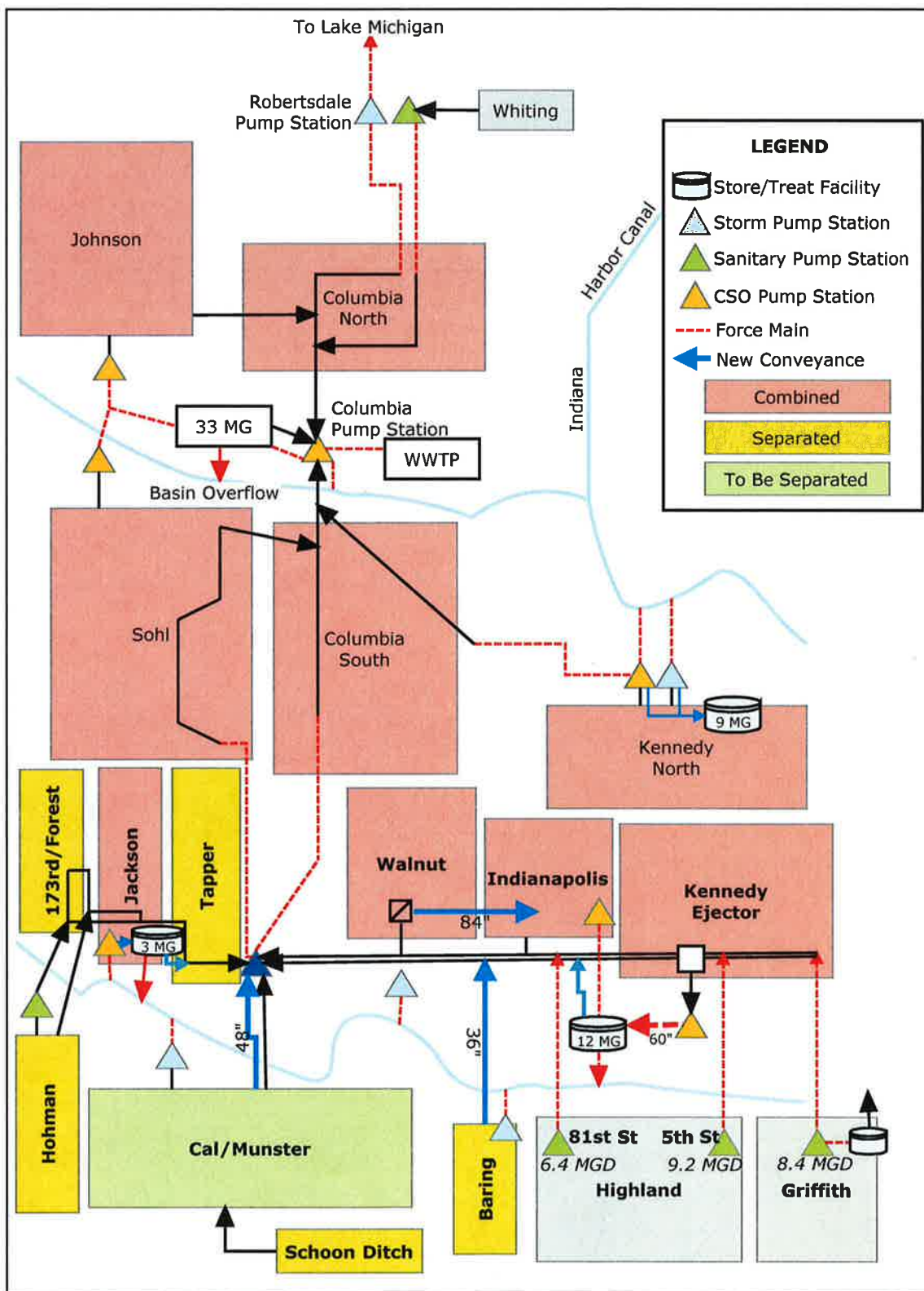


Figure 8-9. Schematic of Alternative 4a — NPD-016 CSO Basins

*Sewersheds not to scale

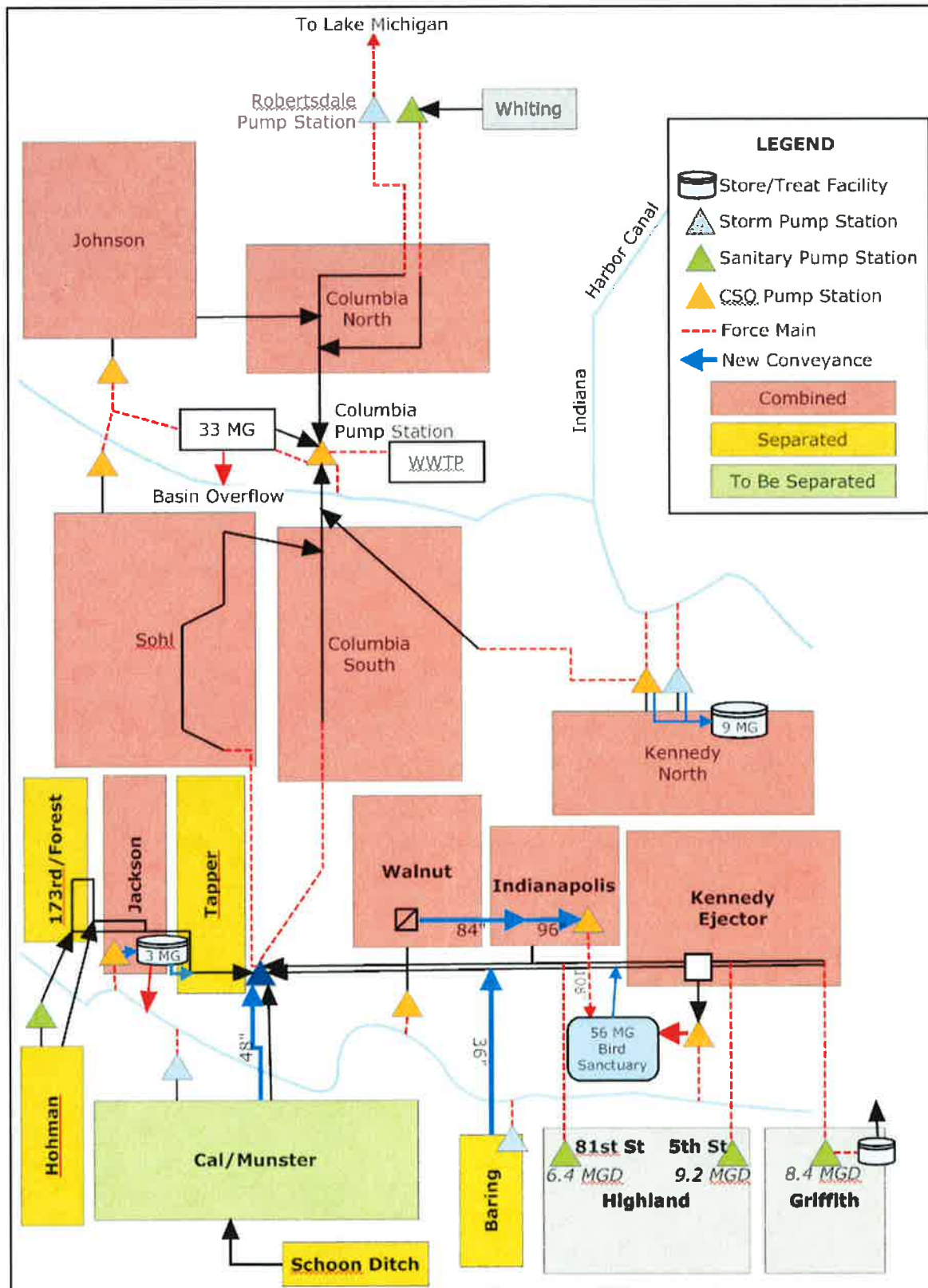


Figure 8-15. Schematic of Alternative 4c — Bird Sanctuary